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search site Announcing the New
GeneChip® Rat Genome 230 2.0 Array

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[Consensus/Exemplar](#)**GeneChip Array Information**

Probe Set ID U15008_at

GeneChip Array HumanGeneFL Array

Organism Common Name Human

Probe Design Information

Transcript ID U15008

Sequence Type Exemplar sequence

Representative Public ID U15008 NCBI

Target Description U15008, class A, 20 probes, 20 in U15008 25-433, Human SnRNP core protein Sm D2 mRNA, complete cds

Genomic Alignment of Target Sequence

Assembly April 2003 (NCBI 33)

Position % Identity Cytoband
Alignment(s) chr19: 50882580-50883664 (-) UCSC 98 q13.32Representative Transcript UniGene Description Position
Overlapping Transcripts NM_004597 small nuclear ribonucleoprotein D2 chr19:50882558-
NCBI polypeptide 16.5kDa 50887282 (-) UCSC
NM_177542 small nuclear ribonucleoprotein D2 chr19:50882558-
NCBI polypeptide 16.5kDa 50887282 (-) UCSC**Public Domain and Genome References**

Gene Title small nuclear ribonucleoprotein D2 polypeptide 16.5kDa

Gene Symbol SNRPD2 HGNC

Chromosomal Location 19q13.2

UniGene ID Hs.424327 NCBI (FULL LENGTH)

Ensembl ENSG00000125743 Ensembl

LocusLink 6633 NCBI

SwissProt P43330 EMBL-EBI

OMIM 601061 NCBI

RefSeq Protein	NP_004588 NCBI
ID	NP_808210 NCBI
RefSeq Transcript ID	RefSeq Title
RefSeq	NM_004597 NCBI small nuclear ribonucleoprotein polypeptide D2
	NM_177542 NCBI small nuclear ribonucleoprotein polypeptide D2

Functional Annotations

	ID	Title	Organism	Type
	ATH1-121501:266482_AT	small nuclear ribonucleo protein D2 -related	Arabidopsis	Putative Ortholog
	C_ELEGANS:172931_X_AT	small nuclear ribonucleoprotein D2 like	Celegans	Putative Ortholog
	DROSGENOME1:153483_AT		Drosophila	Putative Ortholog
Ortholog	MG-U74AV2:95049_AT	small nuclear ribonucleoprotein D2	Mouse	Curated Ortholog
	MOE430A:1452680_AT	small nuclear ribonucleoprotein D2	Mouse	Curated Ortholog
	MU11KSUBA:AA271024_S_AT	small nuclear ribonucleoprotein D2	Mouse	Curated Ortholog
	MOUSE430_2:1452680_AT	small nuclear ribonucleoprotein D2	Mouse	Curated Ortholog
	MOUSE430A_2:1452680_AT	small nuclear ribonucleoprotein D2	Mouse	Curated Ortholog

GO Biological Process (view graph)

	ID	Description	Evidence	Links
	245	spliceosome assembly	traceable author statement	QuickGO AmiGO
	6371	mRNA splicing	traceable author statement	QuickGO AmiGO

GO Cellular Component (view graph)

	ID	Description	Evidence	Links
Gene Ontology	5681	spliceosome complex	traceable author statement	QuickGO AmiGO
	5732	small nucleolar ribonucleoprotein complex	inferred from electronic annotation	QuickGO AmiGO
	30532	small nuclear ribonucleoprotein complex	traceable author statement	QuickGO AmiGO

GO Molecular Function (view graph)

	ID	Description	Evidence	Links
	8248	pre-mRNA splicing factor activity	inferred from electronic annotation	QuickGO AmiGO

	Method	ID	Description	E-Value
Protein Similarities	blast	4759158	small nuclear ribonucleoprotein polypeptide D2; snRNP core protein D2 [Homo sapiens]	1.0E-62
	blast	26337731		3.0E-62
	blast	4759158	small nuclear ribonucleoprotein polypeptide D2; snRNP core protein D2 [Homo sapiens]	1.0E-62
	blast	26337731		3.0E-62

	Database	ID	Description	E-Value
	scop	d1b34b	d1b34b_SCOP:b.38.1.1:D2 core SNRNP	1.85E-

			protein	28
	scop	<u>d1b34b</u>	d1b34b_ SCOP:b.38.1.1; D2 core SNRNP protein	1.85E-28
Protein Domains	pfam	<u>LSM</u>	LSM domain	1.1E-16
	pfam	<u>LSM</u>	LSM domain	1.1E-16
	InterPro	IPR001163	Small nuclear ribonucleoprotein (Sm protein) <u>EMBL-EBI</u>	

Sequence

>HUGENEFL:U15008_AT
 accatcatgagcctcctaacaagccaaagagtggagatgaccccgaggagctgcagaag
 cgagaggaggagaatttaacaccggctccactctctgtgctcacacagtcaagaac
 aatacccaagtgtcatcaactgcgcacaataagaactcctggccgcgtgaaggcc
 ttcgataggcactgcaacatgggtgctggagaacgtgaaggagatgtggactgaggtaccc
 aagagtggcaaggcaagaagaagtccaagccagtcaacaaagaccgctacatctccaag
 atgttcctgcggggactcagtcatgtggcctgcggaaaccgctatcgccggcaag
 tagggccgcgtctgttgcacagaactcactcctctgtcctatgaagaccgctgccatt
 ggtgttgcataata

Probe Info	Probe Sequence(5'-3')	Probe	Probe	Probe	Strandedness
		X	Y	Interrogation Position	
	ACCATCATGAGCCTCCTCAACAAAGC	99	211	37	Antisense
	AGTGAGATGACCCCCAGAGGGAGCTGC	100	211	67	Antisense
	AACACCGGTCCACTCTCTGTGCTCA	101	211	115	Antisense
	GGTCCACTCTCTGTGCTCACACAGT	102	211	121	Antisense
	CTCTCTGTGCTCACACAGTCAGTC	103	211	127	Antisense
	GTGCTCACACAGTCAGTCAGAACAA	104	211	133	Antisense
	TCAGTCAAGAACAAATACCCAGTGC	105	211	145	Antisense
	AATACCCAAGTGCTCATCAACTGCC	106	211	157	Antisense
	CAAGTGCTCATCAACTGCCGCAACA	107	211	163	Antisense
	CGCGTGAAGGCCTTCGATAGGCACT	108	211	205	Antisense
	AAGGCCTTCGATAGGCACTGCAACA	109	211	211	Antisense
	TTCGATAGGCACTGCAACATGGTGC	110	211	217	Antisense
	GTACCCAAGAGTGGCAAGGGCAAGA	111	211	271	Antisense
	TACATCTCCAAGATGTTCTGCGCG	112	211	325	Antisense
	TCAGTCATCGTGGCCTGCGGAACC	113	211	355	Antisense
	TAGGGGCCGCCTGTCTGTTGACAGA	114	211	397	Antisense
	TGACAGAACTCACTCCTCTGTCTA	115	211	415	Antisense
	CTCCTCTGTCTATGAAGACCGCTG	116	211	427	Antisense
	TGTCTATGAAGACCGCTGCCATTG	117	211	433	Antisense
	ACCGCTGCCATTGGTGTGAGAATA	118	211	445	Antisense